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A vaccine which is protective against *Mycoplasma bovis* clinical disease in a bovine species comprising at least one inactivated or attenuated *Mycoplasma bovis* biotype and a pharmaceutically acceptable excipient.

- 2. The vaccine of claim 1, further comprising a suitable adjuvant.
- 3. The vaccine of claim 1, wherein the amount of each inactivated biotype is at least 10⁸ M. bovis cell equivalents.
- 4. The vaccine of claim 1, wherein the amount of each attenuated biotype is at least 10⁵ M. bovis cells.
- The vaccine of claim 1, wherein at least one of the inactivated or attenuated Mycoplasma bovis biotypes is selected from the group consisting of biotype A, biotype B and Biotype C.
- 6. The vaccine of claim 5, wherein the amount of each selected inactivated Mycoplasma bovis biotype is at least 10⁸ M. bovis cell equivalents.
- 7. The vaccine of claim 5, wherein the amount of each selected attenuated Mycoplasma bovis piotype is at least 10⁵ M. bovis cells.
- 8. A vaccine which is protective against *Mycoplasma bovis* clinical disease in a bovine species comprising at least-two inactivated or attenuated *Mycoplasma bovis* biotypes and a pharmaceutically acceptable excipient.
- 9. The vaccine of claim 8, further comprising a suitable adjuvant.
- 10. The vaccine of claim 8, wherein the amount of each inactivated biotype is at least 10⁸ M. bovis cell equivalents.



- 11. The vaccine of claim 8, wherein the amount of each attenuated biotype is at least 10⁵ M. bovis cells.
 - 12. The vaccine of claim 8, wherein the *Mycoplasma bovis* biotype is selected from the group consisting of biotype A, biotype B and biotype C.
- A method for immunizing bovine animals against clinical disease caused by *Mycoplasma bovis* comprising administering to a bovine animal immunogenic amounts of at least one inactivated or attenuated *Mycoplasma bovis* biotype to elicit a protective immune response by the animal.
- 14. The method of claim 13, wherein at least one of the *M. bovis* biotypes is selected from the group consisting of biotype A, biotype B and biotype C.
- 15. The method of claim 13, wherein the vaccine is administered by injection.
- 16. The method of claim 13, wherein the vaccine is administered by inhalation.
- 17. The method of claim 13, wherein the vaccine is administered by ingestion.
- A method for producing a *Mycoplasma bovis* vaccine comprising contacting at least one live *Mycoplasma bovis* biotype with an inactivating material, and combining the inactivated *Mycoplasma bovis* biotype with a pharmaceutically acceptable excipient to produce a *Mycoplasma bovis* vaccine.
- 19. The method of claim 18, further comprising mixing said inactivated *Mycoplasma bovis* biotype with a suitable adjuvant.
- 20. A method for immunizing bovine animals against disease caused by

 Mycoplasma bovis comprising administering to a bovine animal the vaccine of claim 8 to elicit a protective immune response by the animal.

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